

Appln No. 09/692,554
Amdt date July 26, 2005
Reply to Office action of June 1, 2005

REMARKS/ARGUMENTS

Claims 1, 3-15, 17-21, 23, 27-31, 33-39, 41-44, 46, 48-54, 56-60, 62, 64, 66-70, and 78-88 are pending. Claims 1, 3, 5, 7, 8, 14, 17, 19, 27-31, 39, 46, 48, 50, 52, 53, 56, 58, 64, 81, and 85 are amended and claims 71 and 73-76 are cancelled.

Claims 31 and 85 are objected to because of informalities. In view of the amendments to the above claims, it is respectfully requested that the above objection be withdrawn.

Claims 1, 3, 5, 8, 9, 11, 14, 17, 27, 31, 35, 46, 48, 50, 53, 56, 64, 66, 70, 78, 79, 81-83, 87, and 88 are rejected under 35 U.S.C. 102(a) as being anticipated by Mark (U.S. 5,949,874). Claims 4, 6, 10, 12, 21, 28, 49, 51, 60, 67, 80, and 84 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (U.S. 5,949,874). Claims 7, 13, 29, 30, 52, 68, and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (874) in view of Brember et al (U.S. 5,311,578). Claims 15, 23, 33, 38, 39, 41, 54, 62, 71, 73, 85, and 86 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (874) in view of Mark (U.S. 5,583,933). Claims 19, 20, 34, 36, 58, and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (874) in view of McCarthy (U.S. 5,333,191). Claims 18, 37, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (874) in view of Tsai et al (U.S. 6,393,124 B1). Claims 44 and 76 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mark (874) and Mark (933) as applied to claims 39 and 71, and further in view of Tsai. Claims 42, 43, 74 and 75 are rejected under 35 U.S.C. 103(a) as being unpatentable

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over Mark (874) and Mark (933) as applied to claims 39 and 71, and further in view of McCarthy.

Applicants submit that all of the pending claims are patentable over the cited references, and reconsideration and allowance of the pending claims are respectfully requested.

Amended independent claims 1, 46, and 81 include, among other limitations, "detecting from the sampled portion of the voice frame whether the voice frame comprises the tone, wherein the tone detection is delayed until the last frame of the voice packet is received." Mark (874) does not teach, nor does it suggest the above limitations.

Rather, Mark (874) describes a user-authentication system including an authorized user device (AUD) for transmission of DTMF tones to a user-verification system (UVS) over a telephone network. Mark (874) stresses that "the AUD transmits tone signals from a telephone 2 or 4, a computer 6, or a cellular phone 7 which routes the tone signals via a cellular switch 9, over the telephone network to a central switch 8. At the cellular switch 9 certain preliminary security measures can be imposed before the tone signals are routed to a UVS 12." (Col. 16, lines 24-29, underlining added.).

Furthermore, Mark (874) describes that the "tones are received at the central switch 8, shown in step S6, and the tone demodulator 515 demodulates the tone signals. In step S8, a processor 518 associated with the central switch 8, determines if the alert tone is recognizable. If the alert tone is recognizable by the processor 518, the tone signals are directly routed to the intended UVS 12 as shown in step S11." (Col. 20,

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lines 57-63). Therefore, there is no delayed in tone detection until the last frame of the voice packet is received in Mark. As a result amended claims 1, 46, and 81 are not anticipated by Mark (874).

Amended independent claims 14, 31, 39, 53, and 64 include similar limitation and therefore are not anticipated by Mark (874) either.

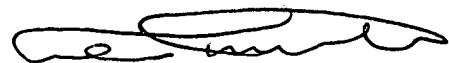
In short, amended independent claims 1, 14, 31, 39, 46, 53, 64 and 81 define a novel and unobvious invention over the cited references. Dependent claims 3-13, 15, 17-21, 23, 27-30, 33-38, 41-44, 48-52, 54, 56-60, 62, 66-70, 78-80, and 82-88 are dependent from above independent claims, respectively and therefore include all the limitations of their respective independent claims and additional limitations therein. Accordingly, these claims are also allowable over the cited references, as being dependent from allowable independent claims and for the additional limitations they include therein.

In view of the foregoing amendments and remarks, it is respectfully submitted that this application is now in condition for allowance, and accordingly, reconsideration and allowance are respectfully requested.

Respectfully submitted,

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